

In the claims:

Cancel claims 20 and 24 without prejudice.

List of claims:

1. (Currently amended) A starter generator for an internal combustion engine, comprising a rotor and a stator each composed of structural elements, the structural elements comprising layered and joined together metal sheets which are stacked on one another so that the structural elements of the rotor and the stator are at least maximally preshaped, the metal sheets of the stator having a suitable geometry for creating the stator directly, the rotor having a base body which contains all essential structural elements of the rotor each comprising the metal sheet, the structural elements of the starter including a cooling system with a first cooling system accommodated in an interior of the stator to provide internal cooling, and a second cooling system with a part having pin bores and recesses on an outer edge of the stator for receiving cooling tubes for external cooling.

2. (Previously amended) The starter generator of claim 1,

wherein the structural elements of the rotor (14) include a hub, a bearing seat (16), and a sensor ring for detecting rpm and/or the direction of rotation.

Claims 3-6 cancelled.

7. (Currently amended) The starter generator of claim 51, wherein for sealing off the cooling system (27), a sealing means (36) is applied in the region of the jacket faces (34) of the cooling system (27).

8. (Previously amended) The starter generator of claim 7, wherein the sealing means (36) is an electroplated coating, a heat-resistant and coolant-resistant paint, or a synthetic resin.

Claims 9-18 cancelled.

19. (Previously added) The starter generator as defined in claim 1, wherein the metal sheets are formed as sheets selected from the group consisting of punch packed, welded, adhesively bonded and riveted metal sheets.

Claim 20 cancelled.

21. (Previously added) The starter generator as defined in claim 1, wherein the cooling tubes (28) are formed as cooling tubes which are pressed-fitted into the stator.

22. (Previously added) The starter generator as defined in claim 1, wherein the cooling tubes (28) have a knurling on their tube surface.

23. (Previously added) The starter generator as defined in claim 1, wherein the cooling tubes (28) are placed in the recesses (26) of the stator (12) and then widened by a mandrel.

Claim 24 cancelled.

25. (Currently amended) The starter generator as defined in claim ~~24~~1, wherein the first cooling system for internal cooling is accommodated on an outer edge of the stator and has an outer jack face formed by a wall of a gear bell which receives the stator.